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GP/1646



Docket No. 1646-2000

TECH CENTER 1600/2900

AUG 24 2001

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Peter Kufer et al

Group Art Unit: 1646

Serial No.: 09/403,107

Examiner: Gerald Ewoldt, Ph.D.

Filed: October 14, 1999

For: Novel Method for the Production of Antihuman Antigen Receptors and Uses Thereof

EXPRESS MAIL CERTIFICATE

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Date of Deposit: August 20, 2001

I hereby certify that the following attached paper(s) and/or fee

1. Response;
2. Appendix A -Marked up copy of Tables 1 and 3
3. Return Postcard

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Docket No. 816-4000
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8-28-01
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Peter Kufer, et al
Serial No : 09/403,107
Filed : October 14, 1999
For : NOVEL METHOD FOR THE PRODUCTION OF ANTIHUMAN
ANTIGEN RECEPTORS AND USES THEREOF
Group Art Unit : 1646
Examiner : Gerald Ewoldt, Ph.D.

Commissioner for Patents
Washington, D.C. 20231

Attention: Non-Fee Amendment

RESPONSE

Sir:

This is in response to the office action dated July 25, 2001 for which a shortened period of response of one month was set.

Please amend tables 1 and 3 of above identified application as follows:

Table I: Primer sets

E1 heavy chain Fd-fragment:

5'-primer:

VH1,3,5,7:	AGGTGCAGCTGCTCGAGTCTGG	SEQ ID NO.: 1
VH2:	CAG(AG)TCACCTTGCTCGAGTCTGG	SEQ ID NO.: 2
VH4:	CAGGTGCAGCTGCTCGAGTCGGG	SEQ ID NO.: 3
VH4B:	CAGGTGCAGCTACTCGAGTGGGG	SEQ ID NO.: 4
VH6:	CAGGTACAGCTGCTCGAGTCAGG	SEQ ID NO.: 5

3'-primer:

E1

CD1: TGCCTTACTAGTCTCTGGCCAGCGGAAGAT SEQ ID NO.: 6

kappa chain fragment:

5'-primer:

VK1: GAGCCGCACGAGCCCGAGCTCCAGATGACCCAGTCTCC SEQ ID NO.: 7
VK3: GAGCCGCACGAGCCCGAGCTCGTG(AT)TGAC(AG)CAGTCTCC SEQ ID NO.: 8
VK2/4: GAGCCGCACGAGCCCGAGCTCGTGATGAC(CT)CAGTCTCC SEQ ID NO.: 9
VK5: GAGCCGCACGAGCCCGAGCTCACACTCACGCAGTCTCC SEQ ID NO.: 10
VK6: GAGCCGCACGAGCCCGAGCTCGTGCTGACTCAGTCTCC SEQ ID NO.: 11

3'-primer:

CK1D: GCGCCGTCTAGAATTAACACTCTCCCCTGTTGAAGCTCTTTGTGA
CGGGCGAACTCAG SEQ ID NO.: 12

lambda chain fragment:

5'-primer:

VL1: AATTTTGAGCTCACTCAGCCCCAC SEQ ID NO.: 13
VL2: TCTGCCGAGCTCCAGCCTGCCTCCGTG SEQ ID NO.: 14
VL3: TCTGTGGAGCTCCAGCCGCCCTCAGTG SEQ ID NO.: 15
VL4: TCTGAAGAGCTCCAGGACCCTGTTGTGTCTGTG SEQ ID NO.: 16
VL5: CAGTCTGAGCTCACGCAGCCGCCC SEQ ID NO.: 17
VL6: CAGACTGAGCTCACTCAGGAGCCC SEQ ID NO.: 18
VL7: CAGGTTGAGCTCACTCAACCGCCC SEQ ID NO.: 19
VL8: CAGGCTGAGCTCACTCAGCCGTCTTCC SEQ ID NO.: 20

3'-primer:

CL2: CGCCGTCTAGAATTATGAACATTCTGTAGG SEQ ID NO.: 21

Table 3

E2

Table 3 : Synthesized peptides (numbers correspond to the numbers of peptide spots)

1. TATFAAAQEECVC	SEQ ID NO.: 22	2. TFAAAQEECVCEN	SEQ ID NO.: 23
3. AAAQEECVCENYK	SEQ ID NO.: 24	4. AQEECVENYKLA	SEQ ID NO.: 25
5. EECVCENYKLAVN	SEQ ID NO.: 26	6. CVCENYKLAVNCF	SEQ ID NO.: 27

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E2

7. CENYKLAVNCFVNN	SEQ ID NO.: 28	8. NYKLAVNCFVNNN	SEQ ID NO.: 29
9. KLAVNCFVNNNRQ	SEQ ID NO.: 30	10. AVNCFVNNNRQCQ	SEQ ID NO.: 31
11. NCFVNNNRQCQCT	SEQ ID NO.: 32	12. FVNNNRQCQCTSV	SEQ ID NO.: 33
13. NNNRQCQCTSVGA	SEQ ID NO.: 34	14. NRQCQCTSVGAQN	SEQ ID NO.: 35
15. QCQCTSVGAQNTV	SEQ ID NO.: 36	16. QCTSVGAQNTVIC	SEQ ID NO.: 37
17. TSVGAQNTVICKS	SEQ ID NO.: 38	18. VGAQNTVICKSLA	SEQ ID NO.: 39
19. AQNTVICKSLAAK	SEQ ID NO.: 40	20. NTVICKSLAAKCL	SEQ ID NO.: 41
21. VICKSLAAKCLVM	SEQ ID NO.: 42	22. CSKLAACKCLVMKA	SEQ ID NO.: 43
23. KLAACKCLVMKAEM	SEQ ID NO.: 44	24. AACKCLVMKAEMNG	SEQ ID NO.: 45
25. KCLVMKAEMNGSK	SEQ ID NO.: 46	26. LVMKAEMNGSKLG	SEQ ID NO.: 47
27. MKAEMNGSKLGRR	SEQ ID NO.: 48	28. AEMNGSKLGRRAK	SEQ ID NO.: 49
29. MNGSKLGRRAKPE	SEQ ID NO.: 50	30. GSKLGRRAKPEGA	SEQ ID NO.: 51
31. KLGRRAKPEGALQ	SEQ ID NO.: 52	32. GRRAKPEGALQNN	SEQ ID NO.: 53
33. RAKPEGALQNNNDG	SEQ ID NO.: 54	34. KPEGALQNNNDGLY	SEQ ID NO.: 55
35. EGALQNNNDGLYDP	SEQ ID NO.: 56	36. ALQNNNDGLYDPDC	SEQ ID NO.: 57
37. QNNNDGLYDPDCDE	SEQ ID NO.: 58	38. NDGLYDPDCDESG	SEQ ID NO.: 59
39. GLYDPDCDESGLF	SEQ ID NO.: 60	40. YDPDCDESGLFKA	SEQ ID NO.: 61
41. PDCDESGLFKAKQ	SEQ ID NO.: 62	42. CDESGLFKAKQCN	SEQ ID NO.: 63
43. ESGLFKAKQCNGT	SEQ ID NO.: 64	44. GLFKAKQCNGTST	SEQ ID NO.: 65
45. FKAQCNGTSTCWC	SEQ ID NO.: 66	46. AKQCNGTSTCWCV	SEQ ID NO.: 67
47. QCNGTSTCWCVNT	SEQ ID NO.: 68	48. NGTSTCWCVNTAG	SEQ ID NO.: 69
49. TSTCWCVNTAGVR	SEQ ID NO.: 70	50. TCWCVNTAGVRRT	SEQ ID NO.: 71
51. WCVNTAGVRRTDK	SEQ ID NO.: 72	52. VNTAGVRRTDKDT	SEQ ID NO.: 73
53. TAGVRRTDKDTEI	SEQ ID NO.: 74	54. GVRRTDKDTEITC	SEQ ID NO.: 75
55. RRTDKDTEITCSE	SEQ ID NO.: 76	56. TDKDTEITCSERV	SEQ ID NO.: 77
57. KDTEITCSERVRT	SEQ ID NO.: 78	58. TEITCSERVRTYW	SEQ ID NO.: 79
59. ITCSEVRRTYWI	SEQ ID NO.: 80	60. CSERVRTYWIIE	SEQ ID NO.: 81
61. ERVRTYWIIEELK	SEQ ID NO.: 82	62. VRTYWIIEELKHK	SEQ ID NO.: 83
63. TYWIIEELKHKAR	SEQ ID NO.: 84	64. WIIEELKHKAREK	SEQ ID NO.: 85
65. IIEELKHKAREKPY	SEQ ID NO.: 86	66. ELKHKAREKPYDS	SEQ ID NO.: 87
67. KHKAREKPYDSKS	SEQ ID NO.: 88	68. KAREKPYDSKSLR	SEQ ID NO.: 89
69. REKPYDSKSLRTA	SEQ ID NO.: 90	70. KPYDSKSLRTALQ	SEQ ID NO.: 91
71. YDSKSLRTALQKE	SEQ ID NO.: 92	72. SKSLRTALQKEIT	SEQ ID NO.: 93
73. SLRTALQKEITTR	SEQ ID NO.: 94	74. RTALQKEITTRYQ	SEQ ID NO.: 95
75. ALQKEITTRYQLD	SEQ ID NO.: 96	76. QKEITTRYQLDPK	SEQ ID NO.: 97
77. EITTRYQLDPKFI	SEQ ID NO.: 98	78. TTRYQLDPKFITS	SEQ ID NO.: 99
79. RYQLDPKFITSIL	SEQ ID NO.: 100	80. QLDPKFITSILYE	SEQ ID NO.: 101
81. DPKFITSILYENN	SEQ ID NO.: 102	82. KFITSILYENNV	SEQ ID NO.: 103
83. ITSILYENNVITI	SEQ ID NO.: 104	84. SILYENNVITIDL	SEQ ID NO.: 105
85. LYENNVITIDLQV	SEQ ID NO.: 106	86. ENNVITIDLQVNS	SEQ ID NO.: 107
87. NVITIDLQVNSSQ	SEQ ID NO.: 108	88. ITIDLQVNSSQKT	SEQ ID NO.: 109
89. IDLVQNSSQKTQN	SEQ ID NO.: 110	90. LVQNSSQKTQNDV	SEQ ID NO.: 111
91. QNSSQKTQNDVDI	SEQ ID NO.: 112	92. SSQKTQNDVDIAD	SEQ ID NO.: 113
93. QKTQNDVDIADV	SEQ ID NO.: 114	94. TQNDVDIADVAYY	SEQ ID NO.: 115
95. NDVDIADVAYYFE	SEQ ID NO.: 116	96. VDIADVAYYFEKD	SEQ ID NO.: 117
97. IADVAYYFEKDVK	SEQ ID NO.: 118	98. DVAYYFEKDVKG	SEQ ID NO.: 119
99. AYYFEKDVKGESL	SEQ ID NO.: 120	100. YFEKDVKGESLFH	SEQ ID NO.: 121
101. EKDVKGESLFH	SEQ ID NO.: 122	102. DVKGESLFHSSKM	SEQ ID NO.: 123